# Mouse Pygopus-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF3533

## DESCRIPTION

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| **Species Reactivity** | Mouse |
| **Specificity** | Detects mouse Pygopus-1 in direct ELISAs and Western blots. |
| **Source** | Polyclonal Goat IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant mouse Pygopus-1<br>Ser2-Ala417<br>Accession # Q9D0P5 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS. |

## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 0.1 µg/mL | Recombinant Mouse Pygopus-1 |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.2 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

Pygopus (the name of a legless Australian lizard) is a 45 kDa transcription co-activator that functions in the Wnt signaling pathway. Mouse Pygopus-1 is a nuclear protein that is synthesized as a 417 amino acid residue protein that has the conserved N-terminal homology domain (NHD) and the C-terminal PHD (Plant homeodomain) finger $Zn^{2+}$-binding domain. A nuclear localization signal is present within the NHD. The PHD finger of Pygopus binds to Legless/Bcl9, which in turn binds β-Catenin, which recruits TCF/LEF DNA binding proteins. Formation of the quaternary complex is required for Wnt signaling. Mouse and human Pygopus-1 share 87% amino acid sequence homology.



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